

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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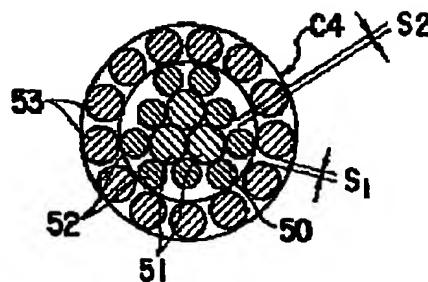
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APPLICANT : TOKYO SEIKO CO LTD;

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TITLE : STEEL CORD



**ABSTRACT :** **PURPOSE:** To obtain the subject cord composed of a core strand and an outer circumference strand, having high filling ratio of rubber into the gap between twist wires and exhibiting excellent durability by using twisted wires having specific diameter for each of the core strand and the circumferential strand and arranging the circumferential twisted wires in a state to form gaps between the wires.

**CONSTITUTION:** The core strand of the steel cord is formed by using 3 first twisted wires 51 having equal diameter as the core and arranging 9 second twisted wires 52 thinner than the first twisted wires 51 (the diameter of the 2nd twisted wire is smaller than that of the 1st twisted wire by 5-15%) in a state to encircle the 1st twisted wires 51 and twisting the 2nd wires together with the 1st wires. The outer circumferential strand of the objective steel cord is obtained by arranging twisted wires 53 on the outer circumference of the core strand in a state twisted in the direction opposite to the twisting direction of the 1st twisted wires 51 and the 2nd twisted wires 52 and leaving a gap between the outer twisted cords 53. The diameters of the wire filament of the 1st twisted wire 51, the 2nd twisted wire 52 and the outer circumferential twisted wire 53 are preferably 0.10-0.35mm.

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